

第1の物体～第1面の距離: 81.739mm

i	r1	d1	n1	
1	989.397	18.000	1.56000	
2	-3595.508	1.697		
3	736.000	74.359	1.56000	
4	2462.140	100.511		
5	-114.548	18.000	1.56000	
6	-946.909	7.879		
7	-185.804	-7.879		M 1
8	-946.909	-18.000	1.56000	
9	-114.548	-255.511		
10	1428.822	324.390		M 2
11	380.000	48.405	1.56000	
12	-345.892	434.726		
13	102.425	18.000	1.56000	
14	225.925	45.944		
15	0.0{stop}	21.343		
16	2231.779	28.288	1.55000	
17	-232.971	1.000		
18	58.389	22.403	1.55000	
19	275.504	1.000		
20	139.927	19.297	1.56000	
21	275.724	5.771		
22	-963.793	27.452	1.56000	
23	-228.789	1.000		
24	106.934	18.000	1.56000	
25	-742.488			

spherical surfaces

i	K	A	B	C	D
2	0.000000e+000	3.268074e-008	-6.656739e-012	1.084352e-016	-1.406501e-020
4	0.000000e+000	-5.945159e-008	9.367805e-012	-3.575672e-016	1.878106e-020
6	0.000000e+000	-1.045454e-008	9.094085e-013	4.544093e-017	6.202292e-019
7	0.000000e+000	-1.020558e-008	-2.127267e-013	-2.970763e-017	1.055495e-019
9	0.000000e+000	-1.045454e-008	9.094085e-013	4.544093e-017	6.202292e-019
12	0.000000e+000	1.276943e-008	-3.269379e-014	-1.148753e-018	1.871030e-022
13	0.000000e+000	-1.177280e-007	-9.735362e-012	-5.058554e-016	-7.794080e-020
16	0.000000e+000	7.415847e-008	-1.533594e-011	2.908583e-015	-1.312466e-019
18	-2.765742e-001	-4.548406e-009	8.093119e-012	-1.772733e-015	-2.169524e-018
20	-3.452340e+000	-1.157411e-007	-3.193404e-011	-1.695026e-015	3.936337e-018
22	0.000000e+000	1.441342e-007	1.075541e-011	8.365199e-015	-6.884476e-018
24	-5.937671e-001	-2.497358e-007	-8.672712e-011	-1.119851e-014	-1.058546e-017

i	E	F	G
2	2.506755e-024	-9.840963e-029	0.000000e+000
4	-1.827522e-024	7.013708e-029	0.000000e+000
6	-1.963400e-022	2.716627e-026	0.000000e+000
7	-2.871088e-023	3.146892e-027	0.000000e+000
9	-1.963400e-022	2.716627e-026	0.000000e+000
12	-9.175707e-027	1.629370e-031	0.000000e+000
13	1.160169e-023	-1.219551e-027	0.000000e+000
16	-2.557773e-022	5.424698e-026	0.000000e+000
18	3.623462e-022	-1.873086e-025	0.000000e+000
20	2.639407e-022	-5.908244e-025	0.000000e+000
22	7.408468e-021	-4.850248e-025	0.000000e+000
24	1.061653e-020	-1.104395e-023	0.000000e+000

【0080】

【表2】〈実施例2〉

第1の物体～第1面の距離:75.685mm

i	ri	di	ni	
1	297.627	19.775	1.56000	
2	-1115.696	328.484		
3	-160.540	18.000	1.56000	
4	2147.160	22.180		
5	-203.139	-22.180		M 1
6	2147.160	-18.000	1.56000	
7	-160.540	-313.164		
8	0.000	385.344		M 2
9	1040.329	38.055	1.56000	
10	-387.846	1.000		
11	193.260	45.524	1.56000	
12	634.071	120.149		
13	249.471	18.000	1.56000	
14	127.136	325.385		
15	0.0(stop)	1.000		
16	234.780	31.014	1.56000	
17	-336.281	1.000		
18	144.606	35.000	1.56000	
19	968.634	16.804		
20	-793.316	35.000	1.56000	
21	-100.000	1.000		
22	88.381	25.000	1.56000	
23	0.000			

aspherical surfaces

i	K	A	B	C	D
1	0.000000e+000	1.372961e-008	3.473252e-013	-3.195720e-016	3.094243e-020
3	0.000000e+000	2.151239e-008	9.541648e-012	4.776084e-016	7.380866e-020
5	0.000000e+000	4.532898e-009	1.823606e-012	1.272571e-016	1.631434e-020
7	0.000000e+000	2.151239e-008	9.541648e-012	4.776084e-016	7.380866e-020
10	0.000000e+000	5.040814e-010	2.625873e-013	-1.089714e-017	9.422664e-022
11	0.000000e+000	-5.072499e-009	1.388658e-013	-1.647184e-017	3.468047e-022
14	0.000000e+000	3.310157e-008	2.166614e-012	3.087404e-016	-3.918557e-020
17	0.000000e+000	1.858529e-007	1.966297e-011	2.828536e-015	2.203269e-019
20	0.000000e+000	-1.667572e-007	-3.379925e-011	7.374553e-015	-5.503265e-019
22	0.000000e+000	-4.993219e-008	7.733187e-012	-2.042203e-015	3.663495e-020

i	E	F	G
1	-1.434764e-023	1.206555e-027	-4.219407e-032
3	-2.063599e-023	4.825958e-027	-5.593776e-031
5	-8.711867e-025	2.964157e-028	1.525109e-033
7	-2.063599e-023	4.825958e-027	-5.593776e-031
10	-2.700633e-026	4.650665e-031	-4.262218e-036
11	3.873194e-028	-2.799981e-031	4.425078e-037
14	1.130858e-023	-1.107497e-027	6.460322e-032
17	1.188890e-022	-2.552807e-026	7.612268e-030
20	1.402677e-023	2.115981e-027	-8.027962e-031
22	-2.309114e-022	-5.309629e-010	5.804270e-030

第1の物体～第1面の距離: 72.614

i	r1	d1	n1	
1	-593.857	25.376	1.56000	
2	-320.774	1.000		
3	463.082	27.632	1.56000	
4	-613.991	281.867		
5	-109.749	18.000	1.56000	
6	-961.687	9.159		
7	-178.361	-9.159		M1
8	-961.687	-18.000	1.56000	
9	-109.749	-266.071		
10	1622.171	305.230		M2
11	-1580.554	24.024	1.56000	
12	-365.238	1.000		
13	347.111	47.000	1.56000	
14	-1881.176	410.002		
15	8178.667	26.178	1.56000	
16	-212.848	75.049		
17	0.0(sup)	15.536		
18	268.041	33.816	1.56000	
19	-186.462	1.000		
20	87.102	70.173	1.56000	
21	350.675	1.000		
22	156.475	21.218	1.56000	
23	86.116	6.639		
24	188.546	20.602	1.56000	
25	-185.509	1.000		
26	105.283	20.915	1.56000	
27	-743.988			

aspherical surfaces

i	K	A	B	C	D
2	-7.257380e+000	-4.781121e-009	-6.890134e-013	-1.267089e-017	8.029170e-022
4	0.000000e+000	-4.766887e-008	2.462294e-012	-9.893034e-017	6.719603e-021
5	0.000000e+000	2.115806e-009	-1.611319e-013	1.025091e-015	5.091150e-019
7	0.000000e+000	-6.717584e-009	-8.093063e-013	2.987582e-017	5.870124e-020
9	0.000000e+000	2.115808e-009	-1.611319e-013	1.025091e-015	5.091150e-019
10	0.000000e+000	7.054971e-010	2.418241e-014	1.839107e-018	-7.963029e-023
12	0.000000e+000	4.707819e-009	-2.189427e-014	1.973642e-018	-1.068343e-023
13	0.000000e+000	8.092928e-010	-6.294695e-014	1.484461e-018	1.870401e-023
15	0.000000e+000	-1.344505e-007	1.853632e-012	1.650439e-016	-1.065871e-020
18	5.660213e+000	7.805319e-008	-5.963359e-011	5.937059e-017	8.483480e-019
20	-5.463452e-001	-1.335770e-007	-8.743479e-013	4.818352e-015	2.569222e-020
22	-1.401248e+000	-4.899966e-008	2.339115e-011	-1.479818e-014	-1.677957e-018
24	0.000000e+000	3.153044e-007	-8.376396e-012	1.928347e-014	5.705932e-018
26	6.643275e-001	-1.189688e-007	6.781855e-012	-1.430235e-014	3.880028e-018

i	E	F	G
2	-4.085486e-025	1.924786e-029	0.000000e+000
4	-2.271293e-025	1.177205e-030	0.000000e+000
5	-1.657547e-023	6.847636e-027	0.000000e+000
7	-1.029076e-023	8.654768e-028	0.000000e+000
9	-1.657547e-023	6.847636e-027	0.000000e+000
10	4.433871e-028	2.201312e-032	0.000000e+000
12	-2.065745e-027	5.118720e-032	0.000000e+000
13	-3.513181e-027	7.675071e-032	0.000000e+000
15	-1.436354e-025	-9.351577e-030	0.000000e+000
18	-2.758585e-022	2.006196e-026	0.000000e+000
20	-2.770624e-022	-8.035715e-026	0.000000e+000
22	1.983183e-021	-1.380364e-025	0.000000e+000
24	-4.390899e-023	5.267086e-026	0.000000e+000
26	3.573891e-021	2.151859e-025	0.000000e+000

【0082】

【表4】〈実施例4〉

第1の物体~第1面の距離: 81.211

i	ri	di	ni
1	2240.555	47.808	1.56000
2	-312.927	1.000	
3	209.677	34.603	1.56000
4	-314.137	150.769	
5	-819.717	-140.769	M 1
6	277.686	889.917	M 2
7	1806.318	19.445	1.56000
8	-583.025	1.000	
9	0.0(stop)	73.850	
10	197.078	35.504	1.56000
11	879.977	1.000	
12	126.409	28.494	1.56000
13	168.675	98.900	
14	121.885	21.036	1.56000
15	906.776		

aspherical surfaces

i	K	A	B	C	D
2	0.000000e+000	3.706794e-008	-5.144019e-012	6.973326e-017	-7.330968e-021
4	0.000000e+000	3.878903e-009	7.795334e-012	-6.781754e-016	5.265168e-020
5	0.000000e+000	8.445174e-009	3.143938e-011	-2.614011e-014	2.098089e-017
6	0.000000e+000	-2.263861e-009	-5.305438e-015	1.717130e-018	-3.511472e-023
7	0.000000e+000	-3.549063e-009	-1.408264e-013	1.931760e-019	5.091573e-023
10	0.000000e+000	-5.841639e-009	-2.405096e-013	4.288890e-018	-7.434790e-022
12	0.000000e+000	-5.913583e-009	-4.340165e-014	-1.651705e-017	-1.294295e-022
14	0.000000e+000	-8.534527e-008	-8.202426e-012	-7.411706e-016	-1.255475e-020

i	E	F	G
2	7.818988e-026	-1.099803e-029	0.000000e+000
4	-3.124244e-024	7.960469e-029	0.000000e+000
5	-1.054713e-020	2.300997e-024	0.000000e+000
6	-1.813806e-028	5.037276e-032	0.000000e+000
7	-4.316781e-027	8.877331e-032	0.000000e+000
10	2.311772e-020	-5.842989e-031	0.000000e+000
12	1.623655e-026	-3.143454e-030	0.000000e+000
14	-2.566756e-024	-3.831608e-028	0.000000e+000

【0083】

【表5】(実施例5)